BRUHAT BANGALORE MAHANAGARA PALIKE

PROJECT : INCREASING THE IMPOUNDING CAPACITY OF ALLASANDRA LAKE AND ALLIED WORKS

DETAILED ESTIMATE

Est cost : 200.00lakhs

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
A	ALLIED WORKS TO ALLASANDRA LAKE								
1	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.								
	[P.No.5 I.No.2.3 of KPWD SR 11-12)								
	For Concrete Drain towards chikkabomasandra	Cum	1	300.00	1.20	1.20	432.00		
	For Foundation of MS Rectangular poles		65	0.75	0.75	1.20	43.88		
	For Compound wall		1	45.00	1.20	1.20	64.80		
							540.68	142.04	**76797.00**
	Basic Rate Rs.=	134.00							
	Add 6% A.W Rs. =	8.04							
	Total Rate Rs. =	**142.04**							
2	Providing and laying in position plain cement concrete of mix M10 with OPC Cement @220kgswith 20mm and down size graded granite metal coarse aggregates @0.84 cum and fine aggregates @0.56cum,machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	[P.No.13 I.No 4.7 of KPWD SR 11-12)								
	For Concrete Drain towards chikkabomasandra	Cum	1	300.00	1.20	0.15	54.00		
	For Foundation of MS Rectangular poles		65	0.75	0.75	0.15	5.48		
	For Compound wall		1	45.00	1.20	0.15	8.10		
	For Approach road of lake near entrance		1	35.00	12.00	0.15	63.00		
							130.58	4130.82	**539421.00**
	Basic Rate Rs.=	3897.00							
	Add 6% A.W Rs. =	233.82							
	Total Rate Rs. =	**4130.82**							
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-320 Kg/cum)								
	[P.No.19 I. no 4.49.1 of KPWD SR 11-12)								
	For Concrete Drain towards chikkabomasandra	Cum	1	300.00	2.80	0.15	126.00		
	For covering		1	300.00	1.20	0.15	54.00		
	For Foundation of MS Rectangular poles		65	0.75	0.75	0.60	21.94		
	For Compound wall		1	45.00	0.60	0.10	2.70		
							204.64	4665.06	**954646.00**

	Basic Rate Rs.=	4401.00							
	Add 6% A.W Rs. =	264.06							
	Total Rate Rs. =	**4665.06**							
4	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges) Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-25 (1:1:2) (Cement-340 Kg/cum)								
	[P.No.19 I. no 4.49.2 of KPWD SR 11-12)								
	For Approach road of lake near entrance	Cum	1	35.00	12.00	0.20	84.00		
							84.00	5179.16	**435049.00**
	Basic Rate Rs.=	4886.00							
	Add 6% A.W Rs. =	293.16							
	Total Rate Rs. =	5179.16							
5	Providing & fabricating TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications.								
	[P.No.19 I. no 4.46 of KPWD SR 11-12)								
	Considering 70kg/cum	ton	--	--	--	--	**11.00**	62646.00	**689106.00**
	Basic Rate Rs.=	59100.00							
	Add 6% A.W Rs. =	3546.00							
	Total Rate Rs. =	**62646.00**							
6	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.								
	[P.No.17 I. no:4.31 of KPWD SR 11-12)								
	For Drain walls	Sqm	4	300.00	1.00		1200.00		
			1	300.00	1.00		300.00		
							1500.00	217.30	**260760.00**
	Basic Rate Rs.=	205.00							
	Add 6% A.W Rs. =	12.30							
	Total Rate Rs. =	**217.30**							
7	Filling available excavated earth in sides of foundations in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering including cost of all labour complete as per specifcations.								
	[P.No.6 I.no 2.10 of KPWD SR 11-12)								
	Total Qty = 30% qty of I.No.	Cum	--	--	--	--	**162.20**	95.40	**15474.00**
	Basic Rate Rs.=	90.00							
	Add 6% A.W Rs. =	5.40							
	Total Rate Rs. =	**95.40**							
8	Earthwork excavation for foundation in all kinds of soil including boulders up to 0.60m dia (0.113cum) for dam barage, spilway,intake surface and other appurtennant works and placing the excavted soil nearly in dump area or disposing off the same as per directions of Engineer in charge and lead of 8km for conveying and breaking of clods complete as per specifications.								
	(P.No.32, I.No.1 of MISR 2010-11)								
	As per Calculation sheet enclosed	cum	1	90000.00		1.2	108000.00		
							108000.00	124.66	**13463280.00**

lead to be got Approval by the Competent Authority

	Basic Rate Rs.=	61.00							
	For conveying of earth	60.00							
		121.00							
	Add 6% A.W Rs. =	3.66							
	Total Rate Rs. =	**124.66**							
9	Clearing grass and removal of rubbish by manual means and stacking outside the periphery of the area cleaned complete as per specifications.								
	[P.No. 143 I.No.18.11 of KPWD SR 11-12)								
	All round bund (7200.00 sqm)	Ha	1	0.72		--	0.72	12449.16	**8963.00**
	Basic Rate Rs.=	11527.00							
	Add 8% A.W Rs. =	922.16							
	Total Rate Rs. =	**12449.16**							
10	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	[P.No.25 I. no:5.6 of KPWD SR 11-12)								
	For compound wall	Cum	1	45.00	0.90	0.75	30.38	2722.08	82683.00
	Basic Rate Rs.=	2568.00							
	Add 6% A.W Rs. =	154.08							
	Total Rate Rs. =	**2722.08**							
11	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	[P.No.26 I.no 5.9 of KPWD SR 11-12)								
	For compound wall	Cum	1	45.00	0.75	0.75	25.31		
			1	45.00	0.60	0.60	16.20		
							41.51	3186.36	**132274.00**
	Basic Rate Rs.=	3006.00							
	Add 6% A.W Rs. =	180.36							
	Total Rate Rs. =	**3186.36**							
12	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	[P.No.119 I.no 15.4 of KPWD SR 11-12)								
	For drains	Sqm	2	45.00	1.00		90.00	71.55	**6440.00**
	Basic Rate Rs.=	67.50							
	Add 6% A.W Rs. =	4.05							
	Total Rate Rs. =	**71.55**							
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)								
	[P.No.265 I.no:37.2 of KPWD SR 11-12)								
	For compound wall	m	15	3.00		--	**45.00**		
			15	3.00		--	**45.00**		
							90.00	864.96	**77846.00**
	Basic Rate Rs.=	816.00							
	Add 6% A.W Rs. =	48.96							
	Total Rate Rs. =	**864.96**							
14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.								

	[P.No.265 I.no:37.4 of KPWD SR 11-12)								
	For compound wall	m	30	3.00		--	**90.00**	272.42	**24518.00**
	Basic Rate Rs.=	257.00							
	Add 6% A.W Rs. =	15.42							
	Total Rate Rs. =	**272.42**							
15	Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint								
	[P.No.265 I.no:37.3 of KPWD SR 11-12)								
	For compound wall	Sqm	1	45.00	3.00	--	**135.00**		
	For high raise grill works		1	190.00	3.50	--	**665.00**		
							800.00	574.52	**459616.00**
	Basic Rate Rs.=	542.00							
	Add 6% A.W Rs. =	32.52							
	Total Rate Rs. =	574.52							
16	Fabricating,supplying and erecting of ISMC 75X40 of 6mm thk welded back to back and in areas of mid section is provided with M.S. Angles 50x50x5mm and inclined members and at supooting ends 40x40x5mm single angle is provided.all members are welded with 6mm gusset plate and entire truss is anchored in RCC column by using 4nos of MS anchor bolts at each support with 10mm thick base plate and shoe plate The work includes cutting, straightening, placing in position of M.S channels sections and chain link fencing 50mm size 8 gauge and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges,& hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification								
	[P.No.46 I.no:7.30 of KPWD SR 11-12)			9500.00			9500.00		
	For high raise grill works	Kgs	1	9900.00		--	**9900.00**		
							9900.00	108.12	**1070388.00**
	Basic Rate Rs.=	102.00							1027140.00
	Add 6% A.W Rs. =	6.12							
	Total Rate Rs. =	**108.12**							
							Total cost of Allied works		**18297261.00**
C	**MEDIANS**								
1	Providing and laying heavy duty cobble stones 65mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.								
	[P.No.117 I.no 14.66.2 of KPWD SR 11-12)								
	For entrsnce of path way	Sqm	1	210.00	4.00		840.00	708.08	**594787.00**
	Basic Rate Rs.=	668.00							
	Add 6% A.W Rs. =	40.08							
	Total Rate Rs. =	**708.08**							
2	Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications._do_ for Ceramic Tiles of size 30x30cms								
	[P.No.113 I.no 14.36.2 of KPWD SR 11-12)								
	For drains	Sqm	60	3.00	2.00		360.00	861.78	**310241.00**
	Basic Rate Rs.=	813.00							
	Add 6% A.W Rs. =	48.78							
	Total Rate Rs. =	**861.78**							

3	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and ...lished with CM 1:3 plastering and finishing cutting etc., complete. of size 450x200x400mm								
	[P.No.28 I. 5.29.1 of KPWD SR 11-12)								
	For drains	nos	900				900.00	285.14	**256626.00**
	Basic Rate Rs.=	269.00							
	Add 6% A.W Rs. =	16.14							
	Total Rate Rs. =	**285.14**							
4	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specificatins. Specification No.KRBS 800.3 MORT & H Specification No.800.								
	[P.No.191 I.NO 24.1 of KPWD SR 11-12)								
	For Kerb Painting	Sqm	2	1600.00	0.35		**1120.00**	47.59	**53305.00**
	Basic Rate Rs.=	44.90							
	Add 6% A.W Rs. =	2.69							
	Total Rate Rs. =	**47.59**							
5	Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications. MORTH Specification No. 803 24.8.1 Painting on Steel Surface.								
	[P.No.192 I.NO 24.8.1 of KPWD SR 11-12)								
	For Kerb Painting	Sqm	1	800.00	1.00		**800.00**	46.32	**37058.00**
	Basic Rate Rs.=	43.70							
	Add 6% A.W Rs. =	2.62							
	Total Rate Rs. =	**46.32**							
								Total cost of Medians	**1252017.00**
1	Providing Security Services for watch and ward of Allasandra lake				**L S**				250000.00
2	Provision for Topographical survey of lake and roads and thord party inspection charges				**L S**				300000.00
								Sub total	**19999278.00**
3	Miscellaneous & Rounding off								722.0
								Project Cost Total Rs.	**20000000.00**

Certificate

1. The above location comes under jurisdiction of BBMP limit.
2. Certified that provisions made are essential and minimium.
3. Certified that the estimate is prepared as per 2011-12 of SR of PWD and 10-11 sr of MI

B.N. [illegible]
Assistant Engineer

[illegible]
Assistant Executive Engineer
Project sub division-Ynk

Executive Engineer
Project Division-Ynk

ACCEPTANCE SANCTIONED FOR Rs. 200.00 Lakhs
Rupees Two hundred lakhs only
.....
Under P.2092
.....
Register[illegible]
Subject [illegible] in
enclosed memo
Dt 23.4.12
.....
dated 23.4.12 .....Rs 200.00 Lakhs

Technical Sanction for Rs. 200.00 Lakhs
Rupees two hundred lakhs only
under P.2092 Allasandra lake
registered as CE/4NK/TS/07/1213 Subject
to Conditions contained in [illegible] memo
No. ..... Dt. 05.05.2012

Joint Commissioner
(Byatarayanapura)